(FILE 'HOME' ENTERED AT 13:56:30 ON 03 SEP 2003)

14 S L13 AND PY<=2000

L14

FILE 'CAPLUS, MEDLINE, EMBASE, BIOSIS, LIFESCI' ENTERED AT 13:57:07 ON 03 SEP 2003 31496 S FIBROBLAST-SPECIFIC OR (FGF) L1 L2209293 S IL-2 OR INTERLEUKIN-2 222 S L1 AND L2 L3 26854 S NF200 OR NEUROFILAMENT L41 S L3 AND L4 L5 L6 5 S NF200 AND L1 3 DUP REM L6 (2 DUPLICATES REMOVED) L7L824 S OCT!4 1124 S OCT-4 OR OCT4 L9 11 S L9 AND L1 L10 5 DUP REM L10 (6 DUPLICATES REMOVED) L1176 S EMBRYOID AND L1 L12L13 33 DUP REM L12 (43 DUPLICATES REMOVED)

Embryonic stem cells (ESC) have been established previously from the inner AΒ cell mass cells of mouse blastocysts. In suspension culture, they spontaneously differentiate to blood-island-containing cystic embryoid bodies (CEB). The development of blood vessels from in situ differentiating endothelial cells of blood islands, a process which we call vasculogenesis, was induced by injecting ESC into the peritoneal cavity of syngeneic mice. In the peritoneum, fusion of blood islands and formation of an in vivo-like primary capillary plexus occurred. Transplantation of ESC and ESC-derived complex and cystic embryoid bodies (ESC-CEB) onto the quail chorioallantoic membrane (CAM) induced an angiogenic response, which was directed by nonyolk sac endoderm structures. Neither yolk sac endoderm from ESC-CEB nor normal mouse yolk sac tissue induced angiogenesis on the quail CAM. Extracts from ESC-CEB stimulated the proliferation of capillary endothelial cells in vitro. Mitogenic activity increase during in vitro culture and differentiation of ESC. Almost all growth factor activity was associated with the cells. The ESC-CEB derived endothelial cell growth factor bound to heparin-sepharose. The identification of acidic fibroblast growth factor (FGF) in heparin-sepharose-purified material was accomplished by immunoblot experiments involving antibodies against acidic and basic FGF. We conclude that vasculogenesis, the development of blood vessels from in situ differentiating endothelial cells, and angiogenesis, the sprouting of capillaries from preexisting vessels are very early events during embryogenesis which can be studied using ESC differentiating in vitro. Our results suggest that vasculogenesis and angiogenesis are

differently regulated.

Ton, Thaian

From:

Ton, Thaian

Sent:

Wednesday, September 03, 2003 2:45 PM

To: Cc: STIC-ILL Ton, Thaian

Subject:

Article Request

I would like to request the following

Histol Histopathol. 1997 Jan;12(1):33-41.

k-FGF protoncogene expression is associated with murine testicular teratogenesis, but is not involved during mouse testicular development.

de Anta JM, Monzo M, Peris B, Ruano D.

Thank you.

Thái-An N. Ton

Patent Examiner

Art Unit 1632

Room: 12A16 CM1 Mailbox: 12E12 CM1 (703) 305-1019

10/015,824

Ton, Thaian

From:

Ton, Thaian

Sent:

Wednesday, September 03, 2003 2:41 PM

To:

STIC-ILL

Cc: Subject: Ton, Thaian Article Request

I would like to request the following:

Cancer Gene Ther. 1998 Mar-Apr;5(2):110-8.

Immunization with interleukin-2-secreting allogeneic cells transfected with DNA from mouse melanoma cells induces immune responses that prolong the lives of mice with melanoma.

Sun T, Carr-Brendel V, De Zoeten EF, Cohen EP.

Thái-An N. Ton

Patent Examiner

Art Unit 1632

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10/015,824

Ton, Thaian

From:

Ton, Thaian

Sent:

Wednesday, September 03, 2003 2:08 PM

To:

STIC-ILL Ton, Thaian

Cc: Subject:

Article Request

TITLE:

Vasculogenesis and angiogenesis in embryonic-stem-cell-

derived embryoid bodies.

AUTHOR:

Risau W; Sariola H; Zerwes H G; Sasse J; Ekblom P; Kemler

R; Doetschman T

CORPORATE SOURCE: Max-Planck-Institut fur Entwicklungsbiologie Tubingen, FRG.

SOURCE:

DEVELOPMENT, (1988 Mar) 102 (3) 471.8.

Journal code: 8701744. ISSN: 0950-1991.

Thank you very much.

Thái-An N. Ton

Patent Examiner

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10/015,824